

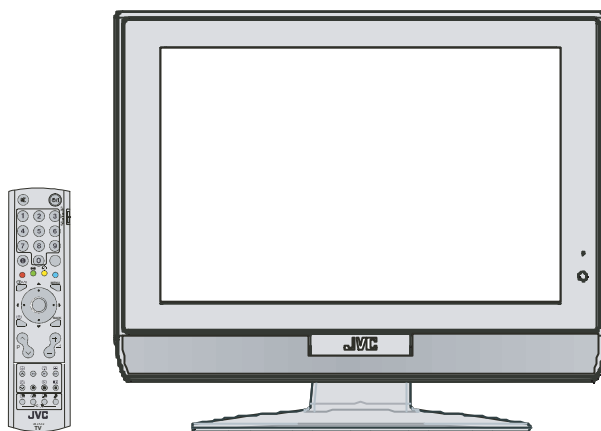
# JVC

## SCHEMATIC DIAGRAMS

WIDE LCD PANEL TELEVISION

**LT-23C50BU<sub>/Z</sub>, LT-23C50SU<sub>/Z</sub>**  
**LT-23C50BJ, LT-23C88SJ**

CD-ROM No.SML200503



InteríArt




# LT-23C50BU/z, LT-23C50SU/z LT-23C50BJ, LT-23C88SJ

## STANDARD CIRCUIT DIAGRAM

### ■ NOTE ON USING CIRCUIT DIAGRAMS

#### 1.SAFETY

The components identified by the  symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

#### 2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1)Input signal : Colour bar signal
- (2)Setting positions of each knob/button and variable resistor : Original setting position when shipped
- (3)Internal resistance of tester : DC 20k $\Omega$ /V
- (4)Oscilloscope sweeping time : H  $\Rightarrow$  20 $\mu$ s / div  
: V  $\Rightarrow$  5ms / div  
: Others  $\Rightarrow$  Sweeping time is specified
- (5)Voltage values : All DC voltage values

\* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

#### 3.INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board : R209  $\rightarrow$  R209

#### 4.INDICATIONS ON THE CIRCUIT DIAGRAM

##### (1)Resistors

###### ● Resistance value

- No unit : [ $\Omega$ ]
- K : [k $\Omega$ ]
- M : [M $\Omega$ ]

###### ● Rated allowable power

- No indication : 1/16 [W]
- Others : As specified

###### ● Type

- No indication : Carbon resistor
- OMR : Oxide metal film resistor
- MFR : Metal film resistor
- MPR : Metal plate resistor
- UNFR : Uninflamable resistor
- FR : Fusible resistor

\* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

##### (2)Capacitors

###### ● Capacitance value

- 1 or higher : [pF]
- less than 1 : [ $\mu$ F]

###### ● Withstand voltage

- No indication : DC50[V]
- Others : DC withstand voltage [V]
- AC indicated : AC withstand voltage [V]

\* Electrolytic Capacitors

47/50[Example]: Capacitance value [ $\mu$ F]/withstand voltage[V]

###### ● Type

- No indication : Ceramic capacitor
- MM : Metalized mylar capacitor
- PP : Polypropylene capacitor
- MPP : Metalized polypropylene capacitor
- MF : Metalized film capacitor
- TF : Thin film capacitor
- BP : Bipolar electrolytic capacitor
- TAN : Tantalum capacitor

#### (3)Coils

- No unit : [ $\mu$ H]
- Others : As specified

#### (4)Power Supply



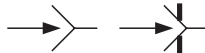
-  : B1
-  : B2 (12V)
-  : 9V
-  : 5V

\* Respective voltage values are indicated





#### (5)Test point

-  : Test point
-  : Only test point display



#### (6)Connecting method

-  : Connector
-  : Wrapping or soldering
-  : Receptacle

#### (7)Ground symbol

-  : LIVE side ground
-  : ISOLATED(NEUTRAL) side ground
-  : EARTH ground
-  : DIGITAL ground

### 5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : () side GND and the ISOLATED(NEUTRAL) : () side GND. Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus ( oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

#### NOTE

◆ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.

When ordering parts, please use the numbers that appear in the Parts List. (No.YA220)2-1

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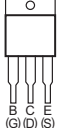
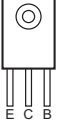
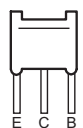
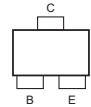
HEADPHONE JACK PWB PATTERN ..... 2-24

USING P.W. BOARD


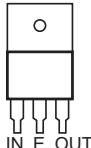
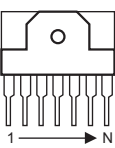
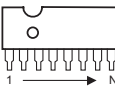
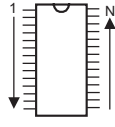
P.W.B ASS'Y name	P.W.B ASS'Y number
MAIN PWB	VE-20182807
SIDE CONTROL PWB	VE-20174624
LED PWB	VE-20174629
AV JACK PWB	VE-20177847
HEADPHONE PWB	VE-20177874

SEMICONDUCTOR SHAPES

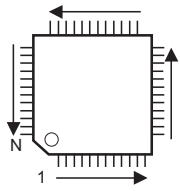
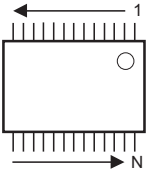
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

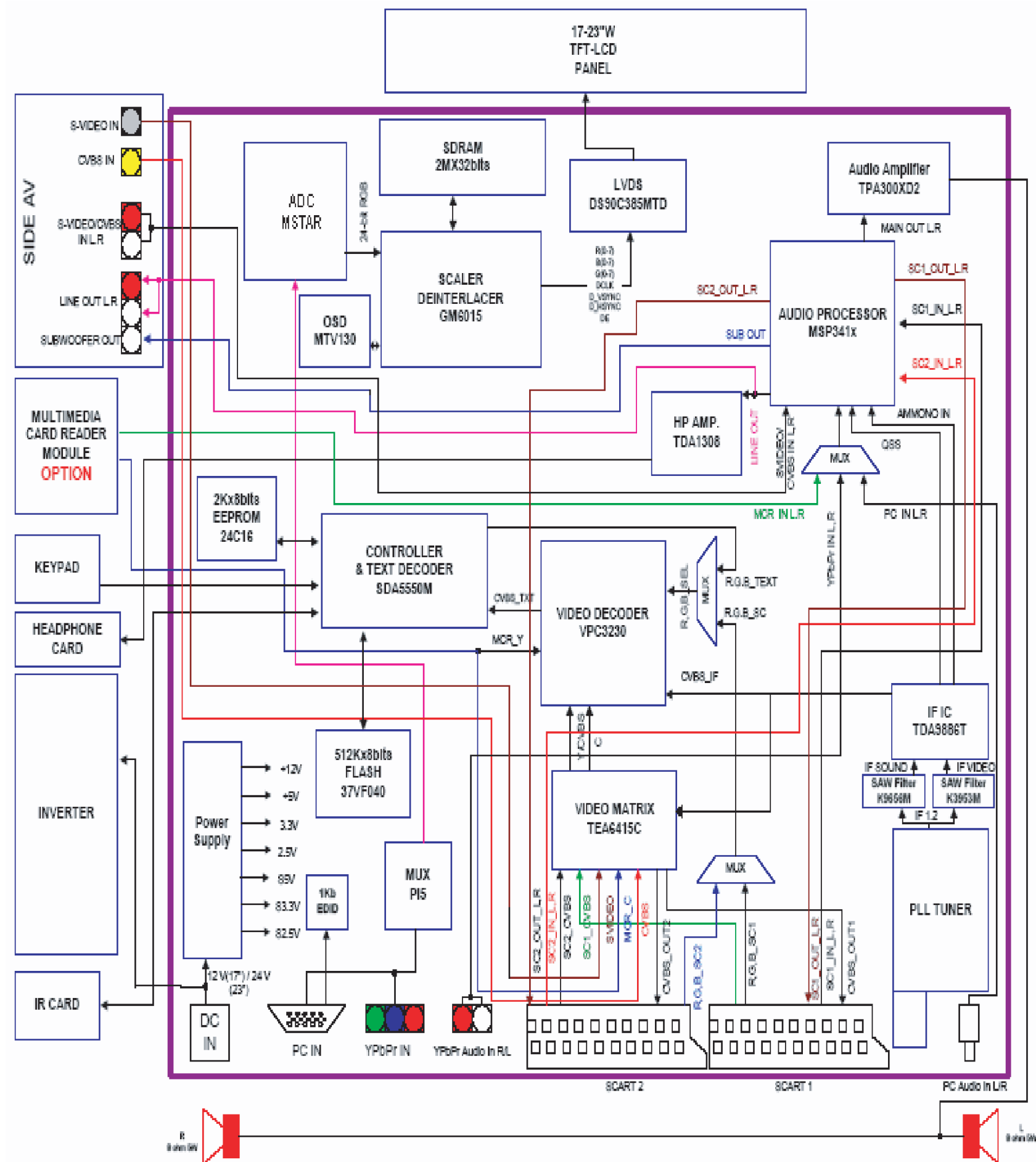
IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

TOP VIEW		
		

BLOCK DIAGRAM



MAIN PWB CIRCUIT DIAGRAM (1/8)

MAIN PWB CIRCUIT DIAGRAM (1/8)

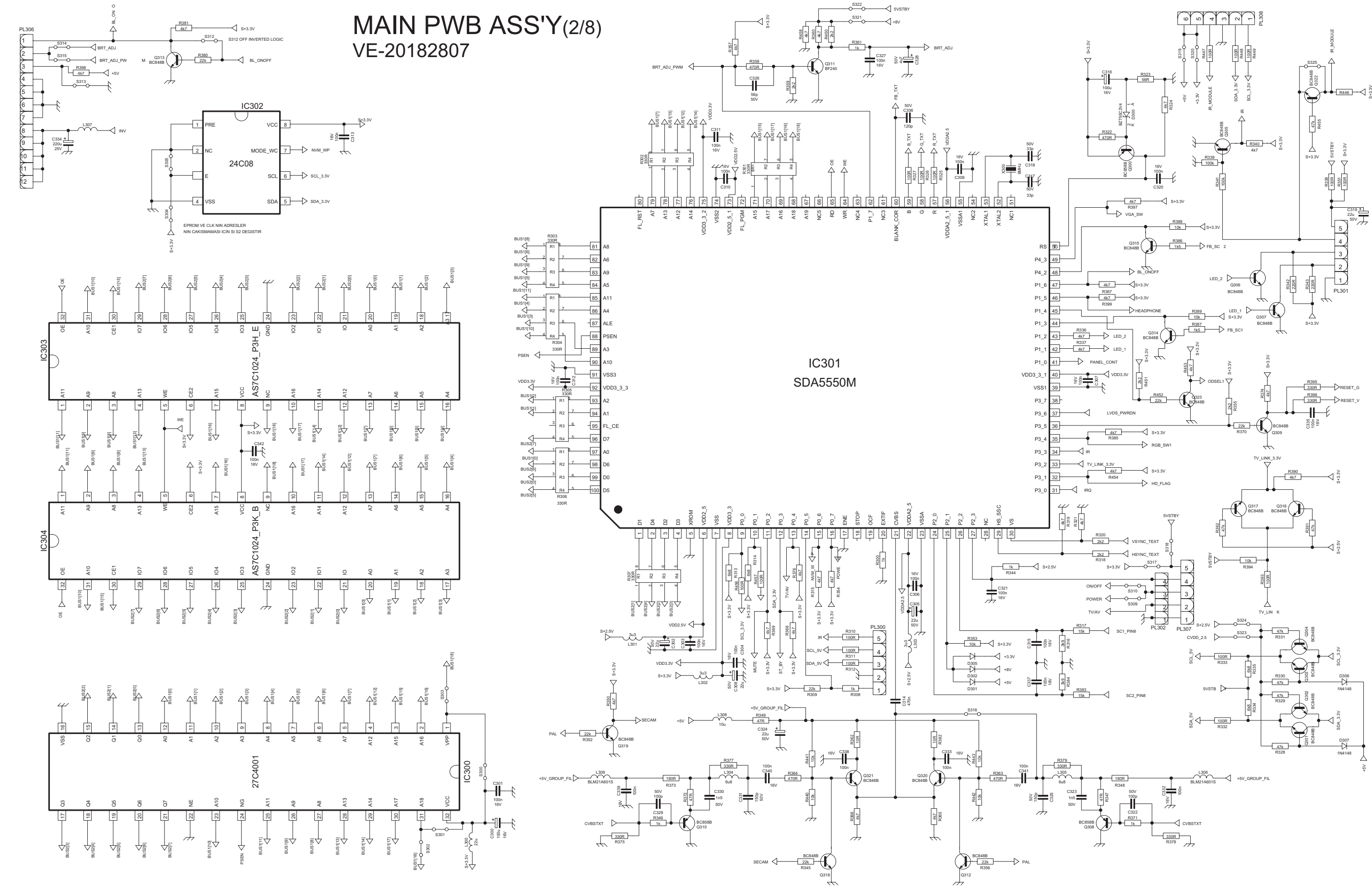
# MAIN PWB ASS'Y<sub>(1/8)</sub>

VE-20182807

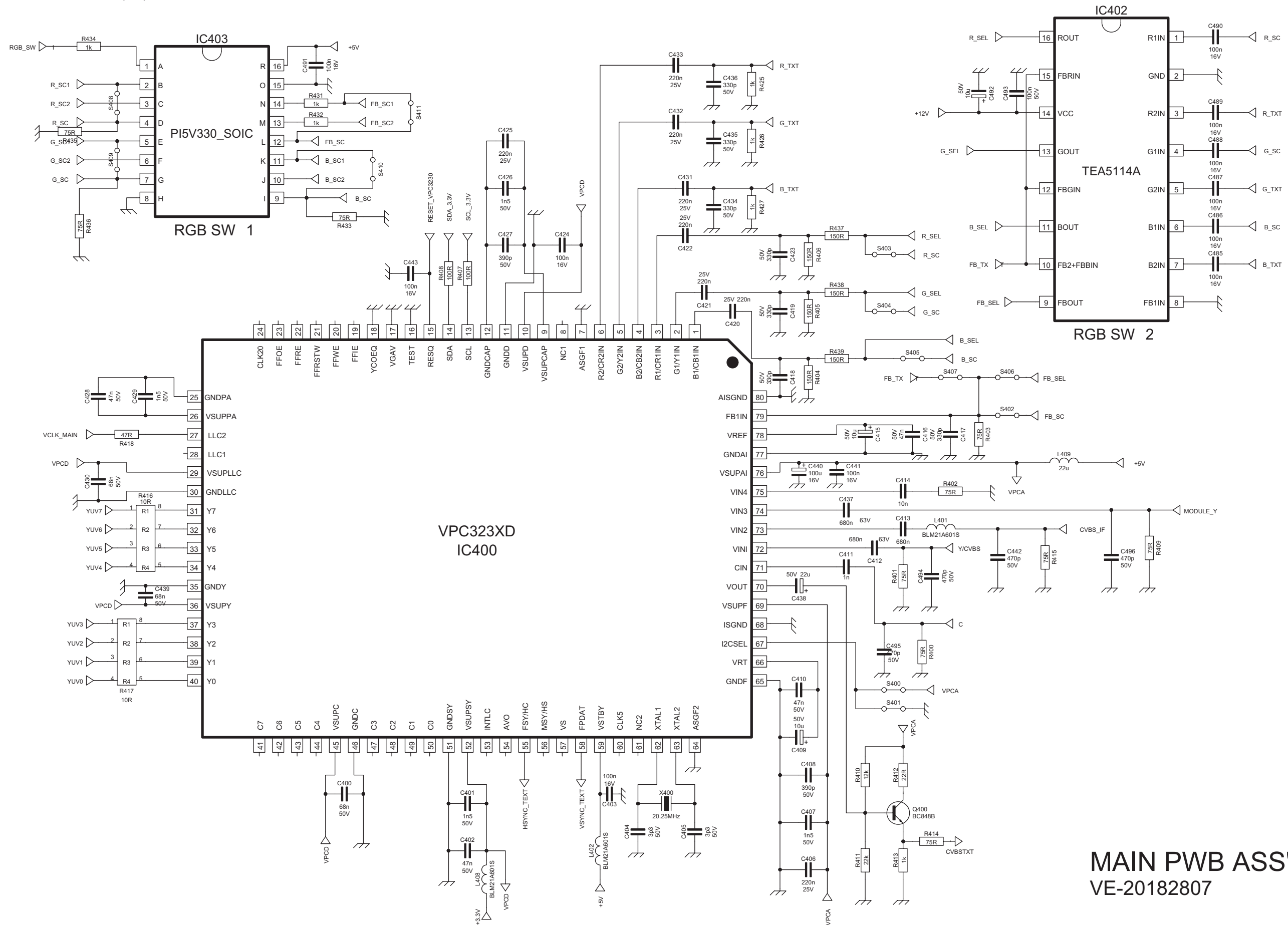


2-6(No.YA220)

MAIN PWB ASS'Y(2/8)  
VE-20182807



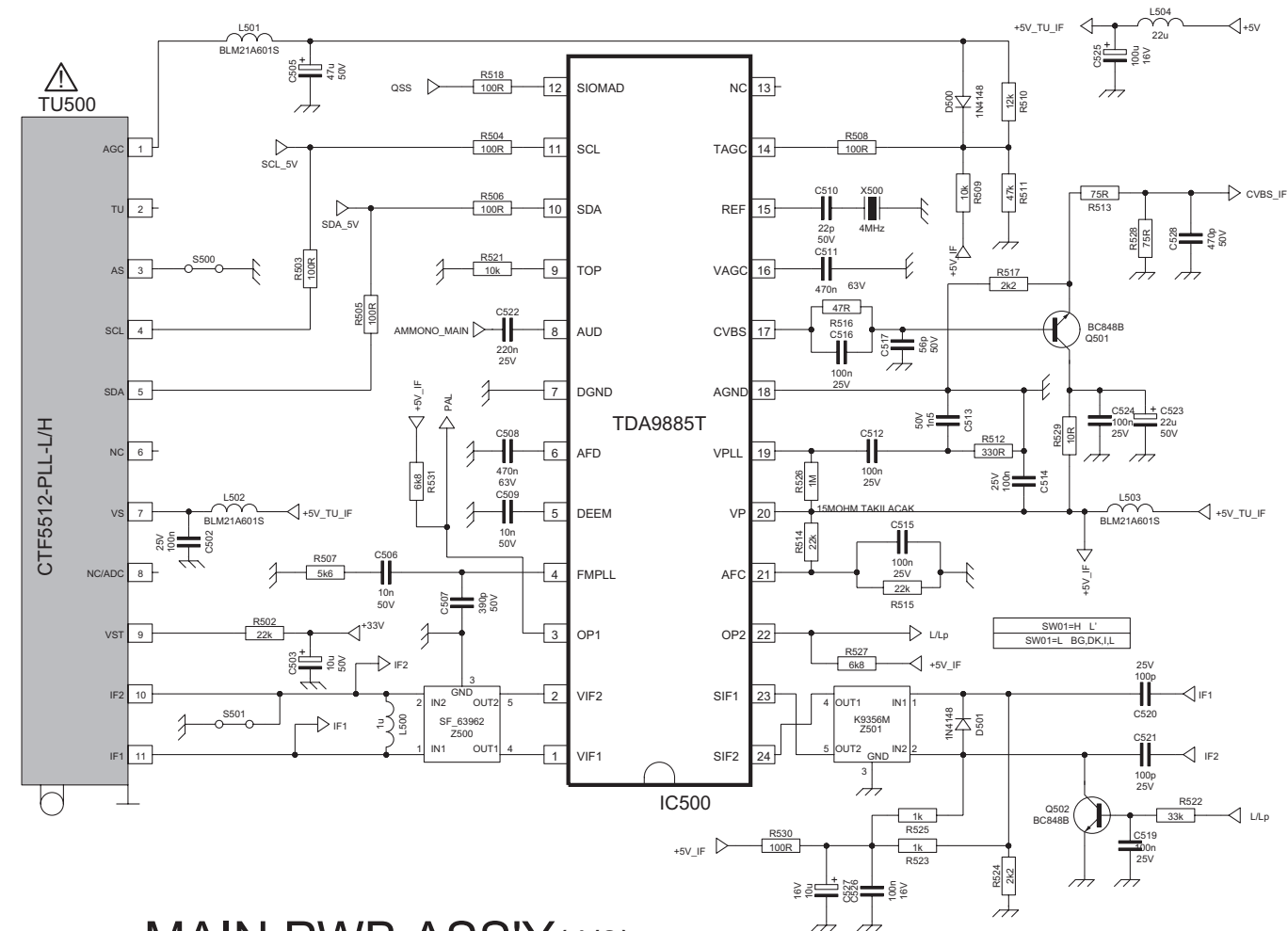
MAIN PWB CIRCUIT DIAGRAM (3/8)



MAIN PWB ASS'Y(3/8)  
VE-20182807

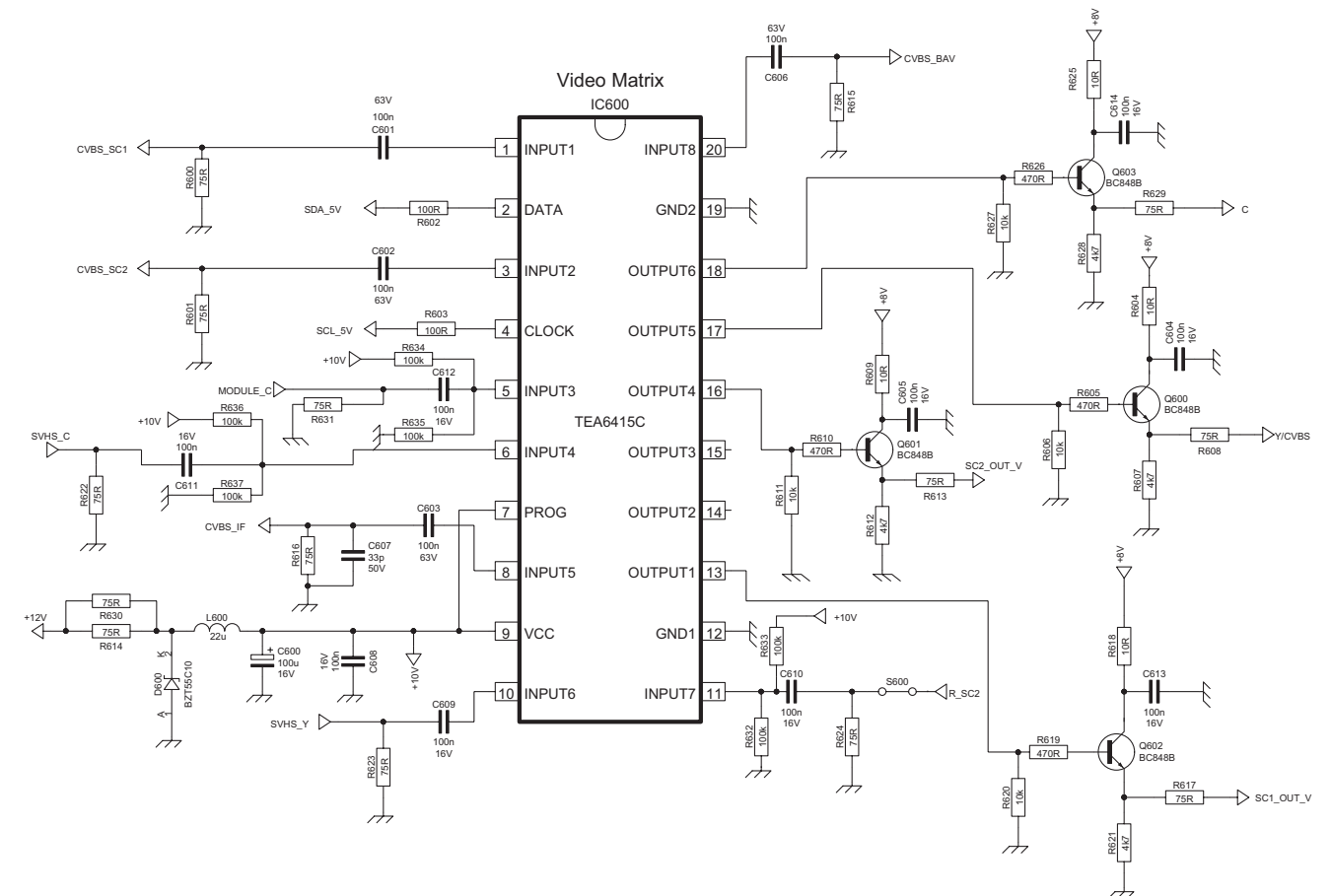


MAIN PWB CIRCUIT DIAGRAM (4/8)



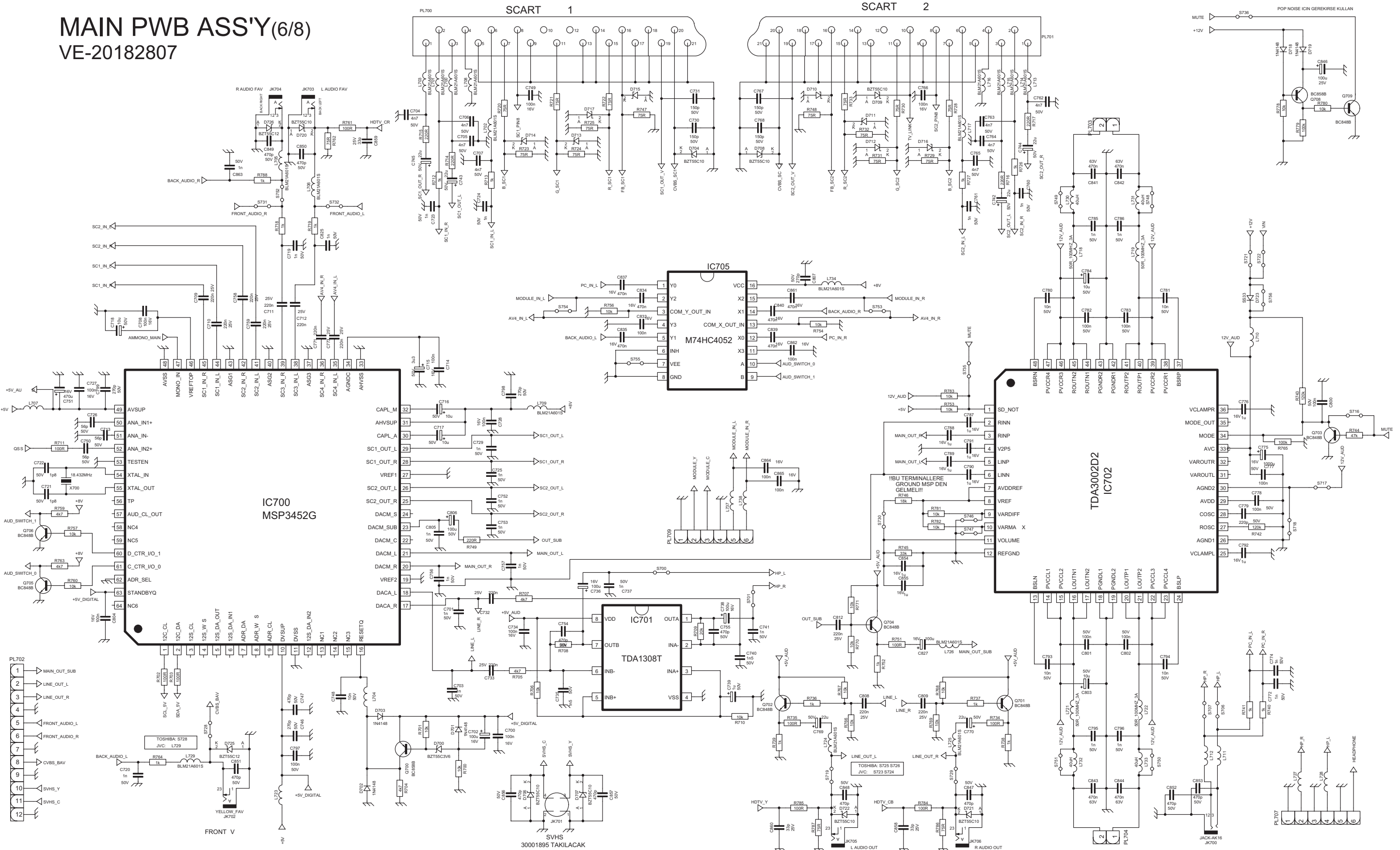
MAIN PWB ASS'Y(4/8)  
VE-20182807

MAIN PWB CIRCUIT DIAGRAM (5/8)

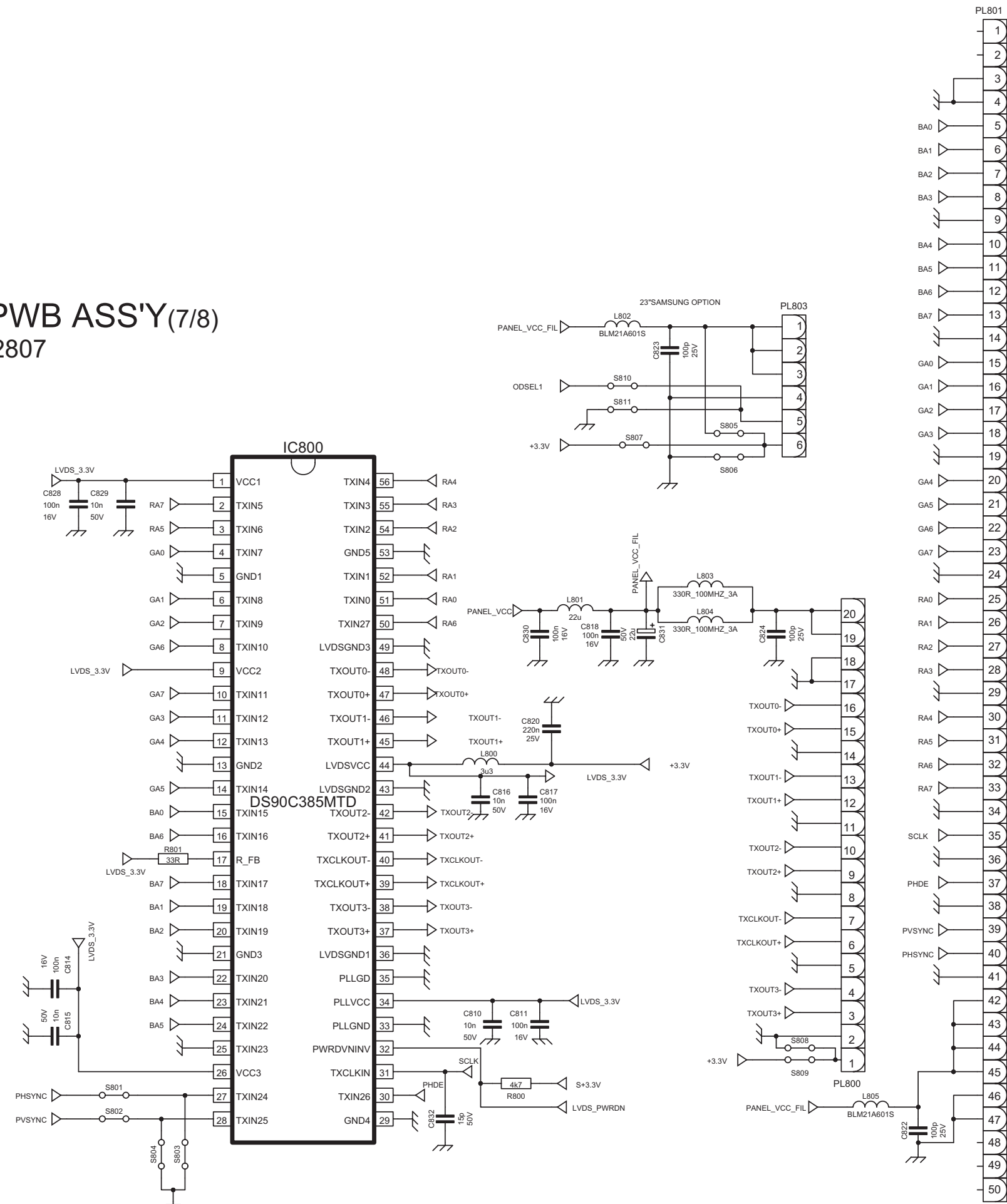


MAIN PWB ASS'Y(5/8)  
VE-20182807

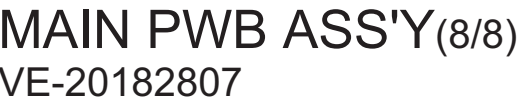
MAIN PWB ASS'Y (6/8)  
VE-20182807



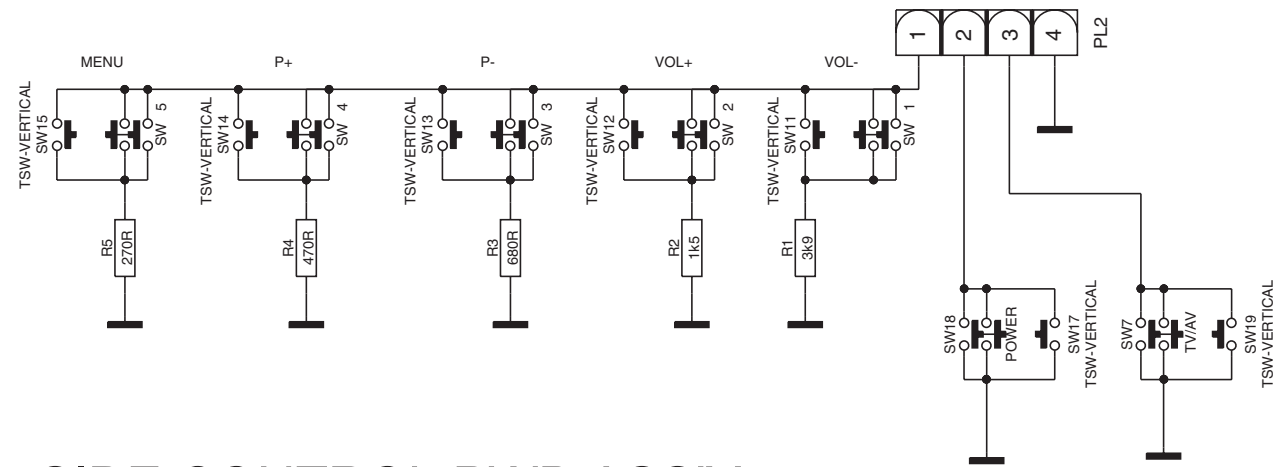
MAIN PWB ASS'Y(7/8)  
VE-20182807



DC POWER SOCKET 20V/7.5A

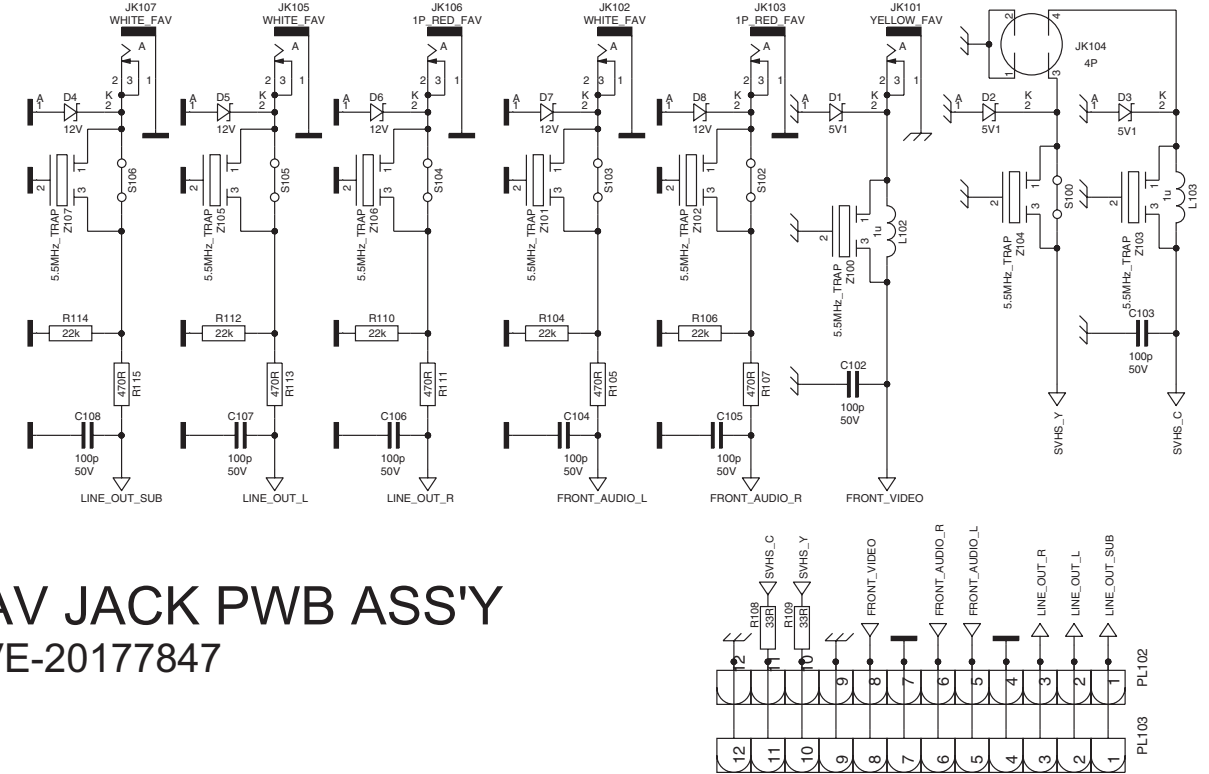


### SIDE CONTROL PWB CIRCUIT DIAGRAM



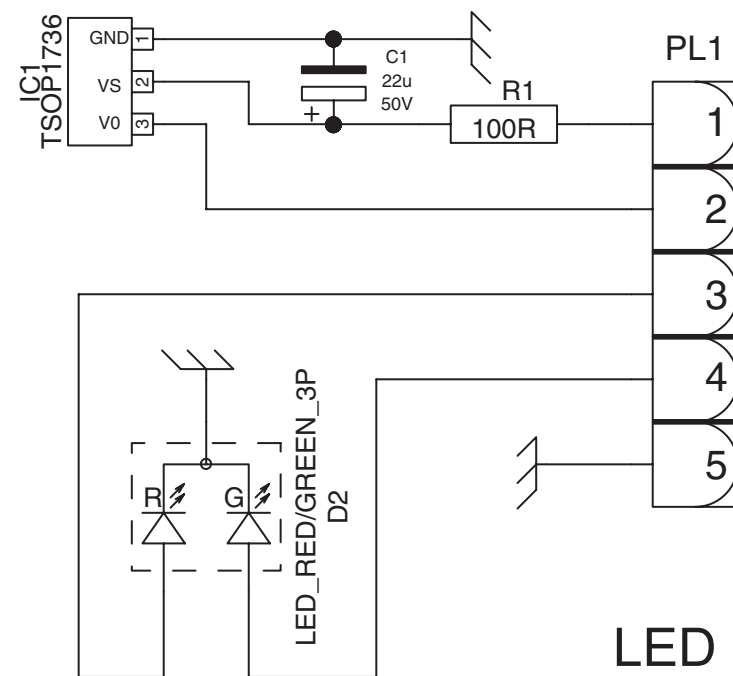
SIDE CONTROL PWB ASS'Y  
VE-20174624

### AV JACK PWB CIRCUIT DIAGRAM



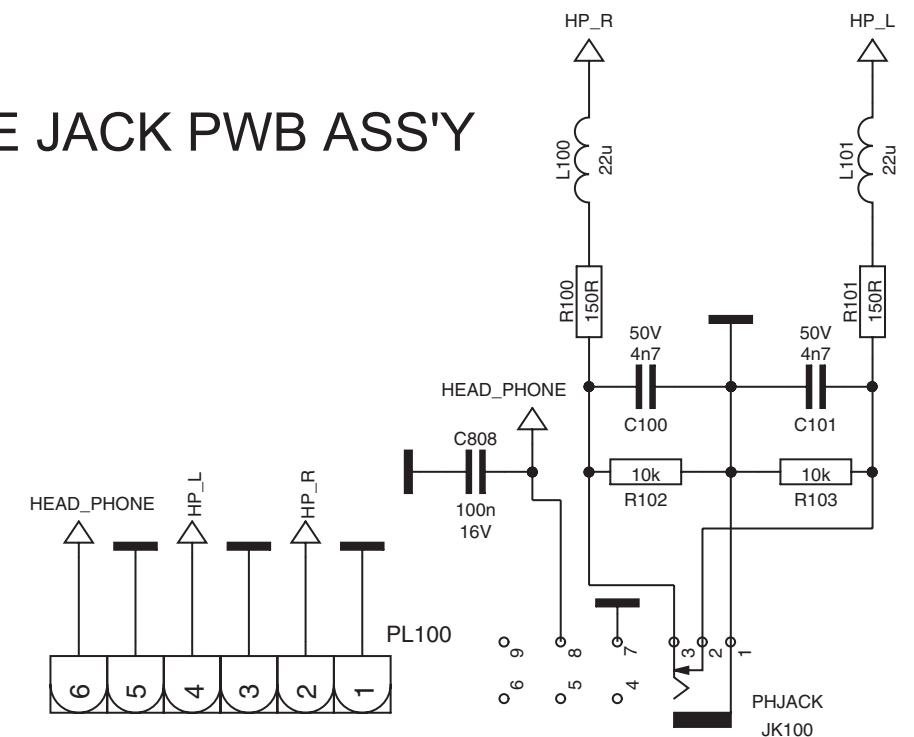
AV JACK PWB ASS'Y  
VE-20177847

### LED PWB CIRCUIT DIAGRAM



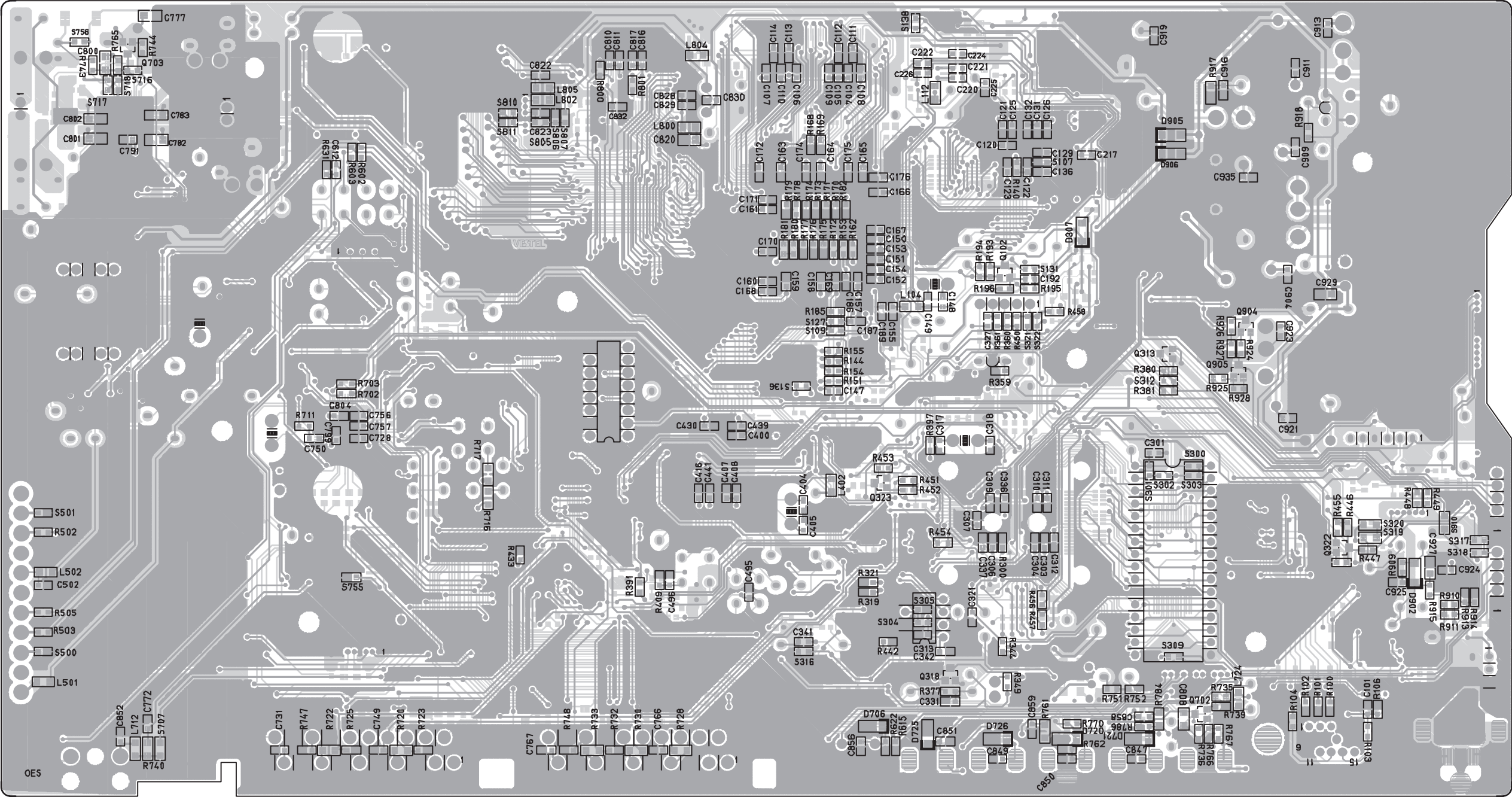
LED PWB ASS'Y  
VE-20174629

### HEADPHONE JACK PWB CIRCUIT DIAGRAM

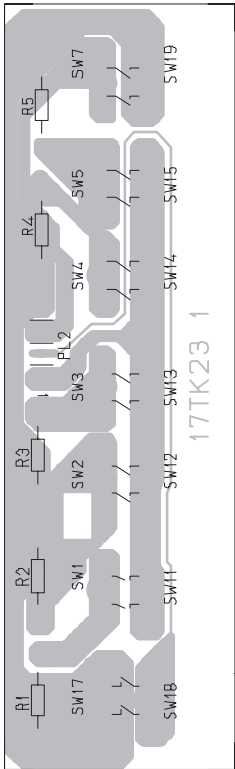




PATTERN DIAGRAMS  
MAIN PWB PATTERN

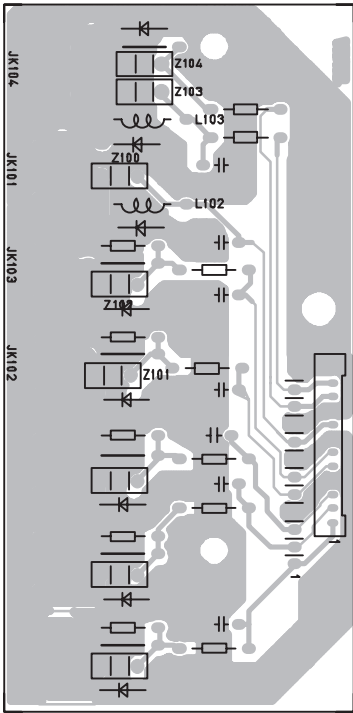


SIDE CONTROL PWB PATTERN



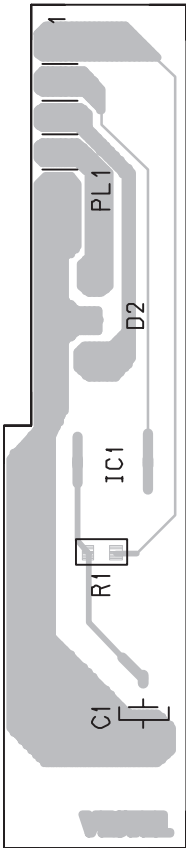
TOP  
↑

AV JACK PWB PATTERN



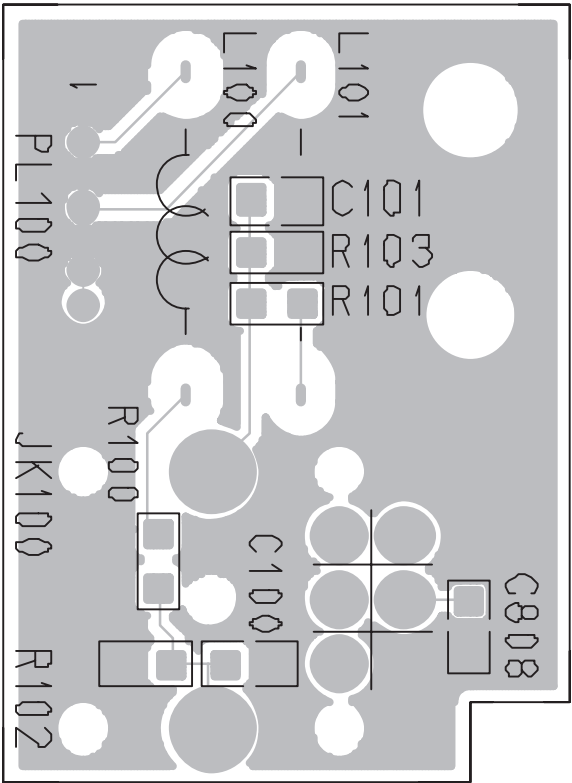
TOP  
↑

LED CONTROL PWB PATTERN



TOP  
↑

HEADPHONE JACK PWB PATTERN



TOP  
↑









Victor Company of Japan, Limited

AV & MULTIMEDIA COMPANY VIDEO DISPLAY CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

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